Fall 2016 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2085 Reclamation District No. 2085 Kasson	Overall LMA Rating	Total LMA Miles	however, U Rated Miles are present, so the Overall LMA					
	M *	6.28	Rating is M i	instead of A.				
Data dilitare		Maintena	nce Deficiancy		Enforc	Enforcement Design & S Obsolesc		
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles		
Earthen Levee			T				ı	
Vegetation					0.05	0.01		
Encroachments	0.00		0.00	4.400/	0.52			
Animal Control	0.09		0.09	1.43%				
Slope Stability	0.04		0.04	0.64%				
Erosion / Bank Caving		0.02	0.08	1.27%				
Supplemental DWR Erosion Survey	0.02		0.02	0.32%				
DWR UCIP Field Study	0.02		0.02	0.3270	0.08			
LMA Totals:	0.15	0.02	0.23	3.66% *	0.65	0.01	0.00	0.00
LIVIA TOLAIS.	0.13	0.02	0.23	3.0070	0.00	0.01	0.00	0.00
Unit No. 01 San Joaquin River LB	Overall Unit	Total Unit						
	Rating	Miles						
RD2085	A	5.29						
Dotad Itam		Maintena	nce Deficiancy		Enforc	ement		k System scence
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee						T	T	
Vegetation					0.05	0.01		
Encroachments					0.52			
Animal Control	0.09		0.09	1.70%				
Slope Stability	0.03		0.03	0.57%				
Supplemental	0.00		0.00	0.000/		I	I	
DWR Erosion Survey	0.02		0.02	0.38%	0.00			
DWR UCIP Field Study	0.44	0.00	0.44	0.050/	0.08	0.04	0.00	0.00
Unit Totals:	0.14	0.00	0.14	2.65%	0.65	0.01	0.00	0.00
Unit No. 02 San Joaquin River	Overall Unit	Total Unit						
	Rating	Miles						
RD2085	Α	0.70						
Date differen		Maintena	nce Deficiancy		Enforc	ement		k System scence
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	
No Items								
Unit Totals:	0.00	0.00	0.00	0.00%				
Unit No. 02 Can Jacquin Divar	Overell Het	Total Hait						
Unit No. 03 San Joaquin River	Overall Unit Rating	Miles						
DD2005	U	0.29						
RD2085	J		noo Dofisiana			ement	Design 8	
Rated Item	NA NAHAA		nce Deficiancy	Throphold C/				scence
Forthern Layers	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee Slope Stability	0.01		0.01	3.39%				
Erosion / Bank Caving	0.01	0.02	0.08	27.14%				
Unit Totals:	0.01	0.02	0.09	30.53%	0.00	0.00	0.00	0.00
Offic Foldis.	0.01	0.02	0.03	30.3370	0.00	0.00	0.00	0.00

LMA District Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 2085 Kasson

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			M *	
	** Non-receipt of Summ Reports may effect o		* Overall LMA Threshold 10.00%; however, U R so the Overall LMA Ra	ated Miles are present,
† SPRING INSPECTIONS: Overall maintenance deficiencies are rated		nined for the spring ins ria in the spring and in		lual maintenance
FALL INSPECTIONS: The overall maintena within the attached u			ion and maintenance de nded to be an indiction o	
Comments				

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles
Unit No. 01 San Joaquin River	Left	5.29

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			Α	
Date of Inspection	3/17/2016 - 3/17/2016		10/19/2016 - 10/19/2016	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Ralph Timan RD2085		Ralph Timan RD2085	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start		Rating **	Α	Issue No.		7		
LM End		Issue Type +	Ma	Location *		N/A		
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Calegory				Start		End		
Item		s & Maintena	nce		٥		0	
item	Manuals				٥		0	
DWR ID DWR_RD2085_01_s _ 2013_7								
		Comn	nent Cod	de				
		Inspecto	or Comm	nent				
The O&M Manual is available at the office.								

No Photos

LM Start		Rating **	Α	Issue No.		9			
LM End		Issue Type +	Ma	Location *		N/A			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Calegory		Start		End					
Emergency Supplies &				0		0			
пеш	Equipmen	nt			0		0		
DWR ID	DWR_RD2	085_01_s _ 201	3_9						
		Comn	nent Cod	de					
Inspector Comment									
Flood fighting supplies are available at the River Club.									

No Photos

LM Start		Rating **	Α	Issue No.		14		
LM End		Issue Type +	Ма	Location *		N/A		
Category	Earthen L	evee		GPS La	atituc	le/Longitude		
Calegory				Start		End		
Item	Flood Pre	paredness &	Training		0	0		
пеш					0	0		
DWR ID	DWR ID DWR_RD2085_01_s _ 2013_14							
		Comn	nent Cod	le				
			_					
		Inspecto	or Comm	ent				
The LMA has a flood fighting plan and training.								

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	0.12	Rating **	A/W	Issue No.		19	
LM End	0.47	Issue Type +	Ma	Location *		CR	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item		Crown Surface / Depressions / Rutting			52°	37.723246°	
пеш	Rutting				28°	-121.299492°	
DWR ID	DWR_RD2	085_01_f _ 201	5_19				
		Comn	nent Coc	le			
C1 : Add a above the			re-grade	the levee t	o br	ing the crown	
Inspector Comment							
Disking on the levee shoulder. Make sure the water drains evenly to the slopes.							

Photo 1 of 1: FA_2016_RD2085_113_19_20160914_00007.jpg



View of the disking on the levee crown shoulder.

LM Start	1.34	Rating **	М	Issue No.		6	
LM End	1.38	Issue Type +	En	Location *		LS	
Cotagon Earthen Levee				GPS La	atitud	e/Longitude	
Category				Start	End		
Encroachments			37.714265°		37.714056°		
пеш				-121.2896	41 °	-121.289069°	
DWR ID	DWR_RD2	085_01_s _ 201	12_6				
Comment Code							
DT : Ditch							

Inspector Comment

Drainage ditch at levee toe.

Photo 1 of 1: FA_2016_RD2085_113_6_20160914_00005.jpg



View of the ditch at the landside levee toe.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	1.35 Rating ** M		Issue No.	53			
LM End	End 1.35 Issue Type + En		Location *		LS		
Category				GPS Latitude/Longitude			
Calegory	Category			Start		End	
Item	DWR UCIP Field Study			37.71440	4 °	37.714404	٥
item			-121.28946	9°	-121.289469	0	
DWR ID							

Inspector Comment

Comment Code

FS_ID:22285 DS_ID:24055 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: No permit identified for this modified crossing. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee 3-feet below the crown. Pump mounted on pile structure in ditch on the landward side. Siphon breaker in 12-inch steel riser unit and a gatevalve on the waterward shoulder. (Permit No. 8189, 1972)

FS Date: 9/10/2013

LM Start	1.35	Rating **	М	Issue No.	53 (cont)	
LM End	1.35	Issue Type +	En	Location *	LS	

Photo 1 of 2 : UCIP_FA_2016_22285_38010.jpg



Pipe, gate valve, and siphon breaker visible on WS slope.

Photo 2 of 2: UCIP_FA_2016_22285_38009.jpg



Pipe, pump, and walkway visible on LS toe.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	1.41 Rating ** M			Issue No.		60	
LM End	1.41	Issue Type +	En	Location *	on * LS		
Category Supplemental				GPS Latitude/Longitude			
Category			Start		End		
DWR UCIP Field Study			37.7140	49°	37.714049°		
Item				-121.2884	26°	-121.288426 °	
DWR ID							
Comment Code							

Inspector Comment

FS_ID:41351 DS_ID:20679 EP_NO: 3975

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Pipe abandoned and should be done so properly. Large hole in ground over pipe on WS berm. Pipe rusted through on

WS at river bank. No connection to pump on LS toe.
FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel stormdrain pipe through the levee 4-feet below the crown. Steel plate over pipe end at pump station on LS toe. Siphon breaker in 24-inch corrugated metal riser unit on the waterward shoulder (Permit No. 3975, 1962). Originally included in the 1968 O&M manual.

FS Date: 9/5/2013

LM Start	1.41	Rating **	М	Issue No.	60 (cont)
LM End	1.41	Issue Type +	En	Location *	LS

Photo 1 of 2: UCIP_FA_2016_41351_62268.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder.

Photo 2 of 2: UCIP_FA_2016_41351_62267.jpg



Pipe visible at bottom of ditch on LS toe.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	1.79	Rating **	М	Issue No.	39	
LM End	1.79	Issue Type +	Ma	Location *	WS	
Earthen Levee				GPS La	atitud	le/Longitude
Category			Start		End	
Animal Control			37.711456°		37.711456°	
пеш				-121.282397 °		-121.282397°
DWR ID	DWR ID DWR_RD2085_01_s _ 2016_39					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						

LMA has bait stations on the levee.



View of the rodent burrows on the landside levee slope.

LM Start	2.04	Rating **	М	Issue No.		55
LM End	2.04	Issue Type +	En	Location *		WS
Category	ental	GPS Latitude/Longitude				
Calegory	Category					End
DWR UCIP Field Study				37.7088	26°	37.708826°
item				-121.2792	71 °	-121.279271 °
DWR ID						

Inspector Comment

Comment Code

FS_ID:19423 DS_ID:20681 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: This pipe is abandoned and should be done so properly.

Wooden stairs and walkway from the berm to the pump structure.

FIELD_STRUCT_DESC: 1 of 2: 10-inch pipe through the levee 2.0-feet below the crown. Pump mounted on pile structure in the river. Siphon breaker in 24-inch CMP riser on the LS slope. Power pole on LS toe.

Originally included in the 1968 O&M manual.

FS Date: 9/5/2013 8:22:24 AM

Photo 1 of 2 : UCIP_FA_2016_19423_32962.jpg



Siphon breaker in 24-inch CMP riser on LS slope. Possible gate valve at end of concrete channel on LS toe.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	2.04 Rating ** M		Issue No.		55 (cont)		
LM End	2.04	Issue Type +	En	Location *		WS	
Supplemental				GPS Latitude/Longitude			
Calegory	Category			Start		End	
Item	DWR UCIP Field Study			37.70882	3°	37.708826	٥
пеш				-121.27927	1°	-121.279271	0
DWR ID							

Inspector Comment

Comment Code

FS_ID:19423 DS_ID:20681 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: This pipe is abandoned and should be done so

properly.

FIELD_STRUCT_DESC: 1 of 2: 10-inch pipe through the levee 2.0-feet below the crown. Pump mounted on pile structure in the river. Siphon breaker in 24-inch CMP riser on the LS slope. Power pole on LS toe. Wooden stairs and walkway from the berm to the pump structure.

Originally included in the 1968 O&M manual.

FS Date: 9/5/2013 8:22:24 AM

Photo 2 of 2 : UCIP_FA_20	016_19423_32961.jpg
And the second s	
包。据《平台	
STATE OF THE STATE	
	AMOST
	09/05/2013 10:34
Land Carlot	THE RESERVE TO SERVE THE PARTY OF THE PARTY

Pipe cut at wooden pier. No pump on end of pier for this pipe.

LM Start	2.05	Rating **	М	Issue No.	18		
LM End	2.51	Issue Type +	En	Location *	LS		
Category Earthen Levee			GPS L	atitud	le/Longitude		
Calegory				Start		End	
Encroachments ltem			37.7087	'37 °	37.703893	0	
пеш		-121.279087 °		-121.274605	0		
DWR ID	DWR_RD2	085_01_s _ 201	2_18				
		Comn	nent Cod	de			
DT : Ditch							_
Inspector Comment							
Concrete-I	Concrete-lined ditch near levee toe.						

No Photos

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	2.56	Rating **	М	Issue No.		1	
LM End	2.58	Issue Type +	Ма	Location *	WS		
Supplemental				GPS Latitude/Longitude			
Calegory	Category					End	
Item	DWR Ero	sion Survey		37.70309	4 °	37.703094°	
пеш				121.27489	4 °	121.274894°	
DWR ID)						
Comment Code							

Inspector Comment 07/08/2016: No significant change observed.

09/10/2015: No significant change observed. Signs of animal activity

09/10/2014: No significant change observed.

09/20/2013: No significant change in erosion observed. More vegetation at the site.

12/04/2012: The erosion has progressed remarkably toward levee, extended to the up-and downstream of the original pocket erosion. Trees and dense bush are present at the site. Animal burrow holes are

visible, and possibly can cause seepage. 09/22/2010: No significant change observed. There is little visibility due

to seasonal grass on the berm and slope. 08/18/2009: Site is located on berm; pocket erosion has developed; the site is covered in dense vegetation; there are several relief wells on the landside of the levee; site is Not Rated because berm width is greater than 30 feet; site should be monitored to keep track of erosion progress. [2016 Site ID:RD2085U01RM66.5]

LM Start	2.56	Rating **	M	Issue No.	1 (cont)
LM End	2.58	Issue Type +	Ma	Location *	WS

Photo 1 of 3: SJR2016_RD2085U01RM66.5_1.jpg



Close view of the erosion.

Photo 2 of 3: SJR2016 RD2085U01RM66.5 3.jpg



Direct view of the erosion. Note the dense vegetation at the site.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	2.56	Rating **	М	Issue No.		1 (cont)	
LM End	2.58	Issue Type +	Ма	Location *		WS	
Supplemental			GPS Latitude/Longitude				
Calegory	Category		Start		End		
Item	DWR Ero	sion Survey		37.70309	4 °	37.703094	0
пеш				121.27489	4 °	121.274894	0
DWR ID							

Comment Code

Inspector Comment

07/08/2016: No significant change observed.

09/10/2015: No significant change observed. Signs of animal activity are present.

09/10/2014: No significant change observed.

09/20/2013: No significant change in erosion observed. More vegetation at the site.

12/04/2012: The erosion has progressed remarkably toward levee, extended to the up-and downstream of the original pocket erosion.

Trees and dense bush are present at the site. Animal burrow holes are visible, and possibly can cause seepage.

09/22/2010: No significant change observed. There is little visibility due to seasonal grass on the berm and slope.

08/18/2009: Site is located on berm; pocket erosion has developed; the site is covered in dense vegetation; there are several relief wells on the landside of the levee; site is Not Rated because berm width is greater than 30 feet; site should be monitored to keep track of erosion progress. [2016 Site ID:RD2085U01RM66.5]

Photo 3 of 3: SJR2016_RD2085U01RM66.5_4.jpg



Close view of the erosion.

2.58	Rating **	A/W	Issue No.	20	
2.58	Issue Type +	Ob	Location *	LS	
Earthen Levee			GPS La	atitud	le/Longitude
Category			Start		End
Underseepage Relief Wells			37.7029	03°	37.702903°
		-121.274860 ° -121.274			-121.274860 °
DWR_RD2	085_01_s _ 201	2_20			
	Comn	nent Cod	de		
Inspector Comment					
	2.58 Earthen L Undersee	2.58 Issue Type + Earthen Levee Underseepage Relief W. DWR_RD2085_01_s _ 201 Comm	2.58 Issue Type + Ob Earthen Levee Underseepage Relief Wells DWR_RD2085_01_s _ 2012_20 Comment Coc	2.58 Issue Type + Ob Location * Earthen Levee GPS La Start Underseepage Relief Wells 37.7029 -121.2748 DWR_RD2085_01_s _ 2012_20 Comment Code	2.58 Issue Type + Ob Location * Earthen Levee GPS Latitud Start Underseepage Relief Wells 37.702903 ° -121.274860 ° DWR_RD2085_01_s _ 2012_20 Comment Code

Photo 1 of 1: FA_2016_RD2085_113_20_20160914_00008.jpg



View of the underseepage relief wells at the landside levee toe.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	2.82	Rating **	М	Issue No.	56		
LM End	2.82	Issue Type +	En	Location *	LS		
Category				GPS Latitude/Longitude			
Calegory		Start		End			
Item	DWR UCI	P Field Study		37.69969	8°	37.699698°	
пеш				-121.27632	5°	-121.276325°	
DWR ID							
Comment Code							

Inspector Comment

FS_ID:19431 DS_ID:20688 EP_NO: 16970

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: The wooden walkway on the WS slope is in disrepair. FIELD_STRUCT_DESC: 1 of 2: 14-inch steel irrigation pipe through the levee 2.0 feet below the crown. Pump on wooden pier at WS slope. Siphon breaker visible next to steel bollard on LS slope. Power pole on LS toe.

FS Date: 9/5/2013



Pump on Wooden pier at WS slopoe.

2.82 Rating ** Issue No. Μ 56 (cont) LM Start Issue Type + Location ' LM End 2.82 En LS





Pipe visible under walkway on WS slope.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	2.90	Rating **	A/W	Issue No.	21			
LM End	2.90	Issue Type +	Ma	Location *	LS			
Earthen Levee				GPS Latitude/Longitude				
Calegory	Category			Start		End		
Item	Animal Co	ontrol		37.69870	o°	37.698700	0	
пеш		-121.27719	9°	-121.277199	0			
DWR ID	DWR ID DWR_RD2085_01_f _ 2015_21					,		
	Comment Code							

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

This area should be monitored for possible rodent activity.

LM Start	2.96	Rating **	С	Issue No.		41	
LM End	2.96	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory	Category					End	
Item	Animal Co	ontrol		37.6980	50°	37.698050°	
пеш				-121.2778	42°	-121.277842°	
DWR ID	DWR_RD2	085_01_s _ 201	6_41				
	Comment Code						

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

No Photos

LM Start	3.03	Rating **	С	Issue No.		24	
LM End	3.03	Issue Type +	Ma	Location *		LS	
Category	evee	GPS La	tituc	le/Longitude			
Category				Start		End	
Item	Animal Control				15°	37.697115	٥
пеш				-121.27787	70°	-121.277870	٥
DWR ID	DWR_RD2	085_01_f _ 201	5_24				
		Comn	nent Coo	de			

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

* Location LS : Land Side WS: Water Side

N/A: Not Applicable

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

A/W : Acceptable but Monitor & Maintain En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	3.30	Rating ** M I		Issue No.		57	
LM End	3.30	Issue Type +	Location *	LS			
Category	Suppleme	ental		GPS Lat	tud	e/Longitude	
Calegory	Category					End	
Item	DWR UCI	P Field Study		37.69361	B°	37.693618	0
пеш				-121.27763	9°	-121.277639	0
DWR ID							

Inspector Comment

Comment Code

FS_ID:19433 DS_ID:20693 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Pipe appears abandoned and should be done so

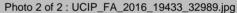
properly.

FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel stormdrain pipe through the levee 4.0-feet below the crown. T-post marks location of Pipe at LS toe. Steel plate welded over pipe on WS slope. Asbuilts available DWG 7-4-1685. Originally included in the 1968 O&M manual. FS Date: 9/5/2013

LM Start	3.30	Rating **	М	Issue No.	57 (cont)
LM End	3.30	Issue Type +	En	Location *	LS



T-post marking pipe end on LS toe. 10-inch pipe debris on LS toe.





Pipe visible on WS slope.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	3.34	Rating **	N	Issue No.		30		
LM End	3.34	Issue Type +	Ma	Location *		WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Trim / Thi	n Trees	37.6930	19°	37.693019°			
пеш	item					-121.277892°		
DWR ID DWR_RD2085_01_s _ 2014_30								
		Comn	nent Cod	de				
T5 : Tree s	stumps.							
Inspector Comment								

No Photos

Rating ** С Issue No. LM Start 3.38 43 Issue Type + Ма Location * LS LM End 3.38 Earthen Levee GPS Latitude/Longitude Category Start End **Animal Control** 37.692565° 37.692565 -121.278012 ° -121.278012° DWR ID DWR_RD2085_01_s _ 2016_43 Comment Code A3: No rodents visible, but rodent burrows visible; need to backfill and

No Photos

compact or grout burrows. Inspector Comment

LMA repaired the rodent damage.

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	3.42	Rating **	М	Issue No.	58		
LM End	3.42	Issue Type +	En	Location *	LS		
Category	ental	GPS Lat	ituc	le/Longitude			
Category	Category					End	
Item	DWR UCI	37.69196	6°	37.691966°			
пеш				-121.27812	2 °	-121.278122°	
DWR ID	VR ID						
Comment Code							

Inspector Comment

FS_ID:19435 DS_ID:20687 EP_NO: 16970

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Appears abandoned and if so should be done so

properly.

FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 10-inch steel stormdrain pipe through the levee 2-feet below the crown. Appears to connect to pump 150-feet off LS toe. Possible butterfly valve at LS toe. Vent on WS shoulder. Steel plate welded over pipe end on WS toe.

FS Date: 9/5/2013

LM Start	3.42	Rating **	М	Issue No.	58 (cont)
LM End	3.42	Issue Type +	En	Location *	LS

Photo 1 of 2: UCIP_FA_2016_19435_32993.jpg



Possible Butterfly valve at LS toe.

Photo 2 of 2: UCIP_FA_2016_19435_32992.jpg



Possible connection at pump 150-feet off LS toe.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	3.55	Rating **	A/W	Issue No.	. 44		
LM End	3.55	Issue Type +	Ma	Location *	* LS		
Category	evee	GPS Latitude/Longitude					
Category				Start		End	
Item	Animal Co	ontrol		37.6904	18°	37.690418°	
пеш				-121.2768	15°	-121.276815 °	
DWR ID DWR_RD2085_01_s _ 2016_44							
Comment Code							
A 2 . No redente vicible, but redent burrous vicible, need to be diffled							

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

LMA has bait stations on the levee slope.

Photo 1 of 2 : FA	2016	RD2085	113	45	20161024	00050 ina
1 11010 1 01 2 . 1 7	2010	1102003	110	40	20101024	UUUUU.IPU

No Photos



View of the rodent burrows on the landside levee slope. Fall 2016

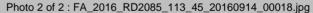
Rating ** Issue No. LM Start 3.57 45 Issue Type + Location * LS LM End 3.57 Earthen Levee GPS Latitude/Longitude Category End Start **Animal Control** 37.690161° 37.690161 -121.276543 ° -121.276543° DWR ID DWR_RD2085_01_s _ 2016_45

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

LM Start	3.57	Rating **	М	Issue No.	45 (cont)
LM End	3.57	Issue Type +	Ma	Location *	LS





View of the rodent burrows on the landside levee slope.

** Rating

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable CR: C: Corrected Ob: Design & System Obsolescence En: Enforcement

** Rating

A: Acceptable N: Not Inspected/Rated Ob: Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	3.62 Rating ** A/W			Issue No.		2	
LM End	3.75 Issue Type + Ma			Location *	WS		
Category	ental	GPS Latitude/Longitude					
Calegory	Category					End	
Item	DWR Ero	sion Survey		37.6885	45 °	37.688545°	
пеш				-121.27629	98°	-121.276298°	
DWR ID							
Comment Code							

Inspector Comment

07/08/2016: The erosion in the berm was found slightly progressed toward the levee toe. Signs of fresh erosion at the site are visible.

08/19/2015: No significant change observed. 07/17/2014: No significant change observed.

09/10/2013: No significant change observed.

12/04/2012: This site has been documented before, and a cost estimate to repair has been prepared dated 05/09/2010. The fresh cut shows the erosion is developing. The berm width is at least 42 feet. Sticks were placed at three locations along the river bank, with 3 sticks 5 feet apart at each location. [2016 Site ID:RD2085U01RM67.7]

LM Start	3.62	Rating **	A/W	Issue No.	2 (cont)
LM End	3.75	Issue Type +	Ma	Location *	WS

Photo 1 of 3: SJR2016_RD2085U01RM67.7_1.jpg



View of the downstream end of the erosion.

Photo 2 of 3: SJR2016_RD2085U01RM67.7_2.jpg



Close view of the erosion.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	3.62	3.62 Rating ** A/W			2 (cont)		
LM End	3.75 Issue Type + Ma			Location *	WS		
Supplemental				GPS Latitude/Longitude			
Category	Category				Start		
Item	DWR Ero	sion Survey		37.68854	5°	37.688545°	
пеш				-121.27629	8°	-121.276298°	
DWR ID							
	Comment Code						

Inspector Comment

07/08/2016: The erosion in the berm was found slightly progressed toward the levee toe. Signs of fresh erosion at the site are visible.

08/19/2015: No significant change observed. 07/17/2014: No significant change observed. 09/10/2013: No significant change observed.

12/04/2012: This site has been documented before, and a cost estimate to repair has been prepared dated 05/09/2010. The fresh cut shows the erosion is developing. The berm width is at least 42 feet. Sticks were placed at three locations along the river bank, with 3 sticks 5 feet apart at each location. [2016 Site ID:RD2085U01RM67.7]



Close view of the erosion.

LM Start	3.65	Rating **	М	Issue No.		37	
LM End	3.65	Issue Type +	Ma	Location *	LS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Item	Animal Co	ontrol		37.6890	90°	37.689090°	
item	item					-121.276326°	
DWR ID DWR_RD2085_01_f _ 2016_37							
Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	3.71	Rating **	A/W	Issue No.	25	
LM End	3.71	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS Latitude/Longitude		
Calegory			Start		End	
Item	Slope Sta	bility		37.6882	216°	37.688216°
пеш				-121.276603°		-121.276603°
DWR ID	DWR_RD2	085_01_f _ 201	5_25			
		Comn	nent Cod	de		
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.						
Inspector Comment						
Control levee access to prevent damage to levee slopes by vehicle.						

Photo 1 of 1: FA_2016_RD2085_113_25_20160914_00009.jpg



View of the waterside levee slope damaged by vehicle.

LM Start	3.74	Rating **	A/W	Issue No.		26
LM End	3.74	Issue Type +	Ма	Location *		WS
Earthen Levee				GPS La	atitud	le/Longitude
Category				Start		End
Item	Slope Stability				41 °	37.687841 °
item			-121.2766	78°	-121.276678°	
DWR ID DWR_RD2085_01_f _ 2015_26						

Comment Code

S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comment

Area should be maintained to prevent further levee damage.



View of the foot path on the levee slope.

LM Start	3.78	Rating **	M	Issue No.		46
LM End	3.78	Issue Type +	Ma	Location *		LS
Category	GPS Latitude/Longitude					
Calegory	zategory					End
Item	Slope Sta	bility		37.6872	53°	37.687253
пеш				-121.2767	80°	-121.276780
DWR ID DWR_RD2085_01_s _ 2016_46						
Comment Code						

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	3.86	Rating **	М	Issue No.		36	
LM End	3.91	Issue Type +	Ма	Location *		LS	
Earthen Levee				GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Animal Co	ontrol		37.6860	59°	37.685340°	
пеш	····				45°	-121.276594°	
DWR ID DWR_RD2085_01_f _ 2016_36							
		Comn	nent Cod	de			
A3 : No roccompact o		le, but rodent rows.	burrows	visible; nee	ed to	backfill and	
		Inspecto	or Comm	nent			



View of the rodent holes on the levee slope.

LM Start	4.03	Rating **	М	Issue No.		59	
LM End	4.03	Issue Type +	En	Location *	LS		
Category	ental	GPS Latitude/Longitude					
Category				Start		End	
Item	DWR UCI	P Field Study		37.6836	42°	37.683642°	
item				-121.2757	92 °	-121.275792°	
DWR ID							
Comment Code							

Inspector Comment

FS_ID:19443 DS_ID:20684 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: This pipe appears abandoned and should be done so properly.

FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee 4.0-feet below the crown. Pump house on the waterward berm. Siphon breaker in 24-inch corrugated metal riser unit on the landside shoulder. Vent on WS toe. 2-inch galvanized iron electrical conduit at same location. Originally included in the 1968 O&M manual.

FS Date: 9/5/2013

Photo 1 of 2: UCIP_FA_2016_19443_33002.jpg



Pumphouse and pipe visible on WS toe.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	4.03	Rating **	М	Issue No.		59 (cont)		
LM End	4.03	Issue Type +	En	Location *		LS		
Category Supplemental			GPS La	titud	e/Longitude			
				Start		End		
Item	DWR UCI	P Field Study		37.68364	l2°	37.683642	0	
пеш				-121.27579	92 °	-121.275792	0	
DWR ID								
	Comment Code							

Inspector Comment

FS_ID:19443 DS_ID:20684 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: This pipe appears abandoned and should be done so

properly.

FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee 4.0-feet below the crown. Pump house on the waterward berm. Siphon breaker in 24-inch corrugated metal riser unit on the landside shoulder. Vent on WS toe. 2-inch galvanized iron electrical conduit at same location. Originally included in the 1968 O&M manual.

FS Date: 9/5/2013



Siphon breaker on vent in 24-inch CMP riser on LS shoulder.

LM Start	4.15	Rating **	М	Issue No.		34		
LM End	4.15	Issue Type +	Ма	Location *		WS		
Category Earthen Levee			GPS La	titud	e/Longitude			
Calegory	Category					End		
Item	Animal Co	ontrol		37.6824	95°	37.682495°		
пеш				-121.2741	69°	-121.274169°		
DWR ID DWR_RD2085_01_f _ 2016_34								

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Photo 1 of 1: FA_2016_RD2085_113_34_20161024_00047.jpg



View of the rodent holes on the levee slope.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

	4.40	Dating **	N 4	Issue No.		00		
LM Start	4.40	Rating **	М	issue ivo.		33		
LM End	4.45	Issue Type +	En	Location *	LS			
Category Earthen Levee			GPS Latitude/Longitude					
Category				Start		End		
Item	n		37.6818	63°	37.681640 °			
пеш				-121.269856 °		-121.269046 °		
DWR ID DWR_RD2085_01_s _ 2012_33								
Comment Code								
V6 : Lands	caping							
		Inspecto	or Comm	nent				

LM Start	4.40	Rating **	М	Issue No.	33 (cont)
LM End	4.45	Issue Type +	En	Location *	LS

Photo 1 of 2 : FA_2016_RD2085_113_33_20160914_00013.jpg

View of the landscaping at the landside levee slope.

Photo 2 of 2: FA_2016_RD2085_113_33_20160914_00014.jpg



Updated photo of encroachments on landside toe.

LM Start	4.43	Rating **	М	Issue No.		27			
LM End	4.43	Issue Type +	En	Location *		LS			
Category	Catagoria Earthen Levee			GPS La	atitud	e/Longitude			
Calegory				Start		End			
Item	ments	37.6817	'10 °	37.681710°					
item				-121.2692	90°	-121.269290°			
DWR ID DWR_RD2085_01_f _ 2015_27									
		Comm	nent Cod	de					
MA : Mate	rial								
			_						
		Inspecto	or Comm	nent					

Photo 1 of 1 : FA_2016_RD2085_113_27_20160914_00010.jpg



View of the material stored at the landside levee toe.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	4.46	Rating **	N	Issue No.		32
LM End	4.46	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Trim / Thi	n Trees		37.6816	05°	37.681605°
item				-121.2688	82°	-121.268882 °
DWR ID	DWR_RD2	085_01_s _ 201	2_32			·
		Comn	nent Cod	de		
T5 : Tree s	stumps.					
		Inspecto	or Comm	nent		



11/03/2011 Large stump on landside slope.

LM Start	4.49	Rating **	U	Issue No.		28			
LM End	4.49	Issue Type +	En	Location *	LS				
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Calegory				Start		End			
Item	Vegetation			37.6814	53°	37.681453°			
пеш	item				27°	-121.268327°			
DWR ID	DWR_RD2	085_01_f _ 201	5_28						
		Comn	nent Cod	de					
V6 : Lands	caping								
	Inspector Comment								



View of the unmaintained vegetation at the landside levee toe.

LM Start	4.59	Rating **	М	Issue No.	17			
LM End	4.59	Issue Type +	En	Location *	LS			
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Calegory				Start		End		
Item	Encroach	ments		37.6811	58°	37.681158°		
item	111				87°	-121.266587°		
DWR ID DWR_RD2085_01_f _ 2013_17								
		Comn	nent Cod	de				
FW : Firew	ood .							
		Inspecto	or Comm	nent				



View of the firewood and debris stored at the landside levee toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	4.59	Rating **	М	Issue No.		17 (cont)		
LM End	4.59	Issue Type +	En	Location *	LS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Encroachi	ments		37.6811	58°	37.681158°		
iteiii	item				87°	-121.266587°		
DWR ID DWR_RD2085_01_f _ 2013_17								
		Comn	nent Cod	de				
FW : Firew	vood							
		Inspecto	or Comm	nent				

Photo 2 of 2 : FA_2016_RD2085_113_17_20160914_00006.jpg



View of the firewood stored at the landside levee toe.

LM Start	5.02	Rating **	С	Issue No.	22		
LM End	5.02	Issue Type +	Ma	Location *	LS		
Category	evee	GPS Latitude/Longitude					
Calegory	ategory					End	
Item	Vegetatio	n		37.6778	30°	37.677830°	
item				-121.2687	69°	-121.268769°	
DWR ID	DWR ID DWR_RD2085_01_f _ 2013_22						
Comment Code							

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

LMA mowed the vegetation.

No Photos

LM Start	5.05	Rating **	М	Issue No.	51		
LM End	5.05	Issue Type +	Ma	Location *	LS		
Cotogon/ Earthen Levee				GPS La	titud	le/Longitude	
Calegory	Category			Start		End	
Item	Slope Sta	bility		37.6776	91 °	37.677691°	
пеш				-121.2692	36°	-121.269236 °	
DWR ID	DWR_RD2	085_01_s _ 201	6_51				
Comment Code							
S3 · Panai	r the leves	slone damac	ed by ye	hicle traffic	anc	Inrovent	

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment



View of the tire tracks on the levee slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	5.20	Rating **	М	Issue No.		52		
LM End	5.20	Issue Type +	Ма	Location *		LS		
Catagory	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Slope Sta	bility		37.6756	20°	37.675620°		
item				-121.269359°		-121.269359°		
DWR ID DWR_RD2085_01_s _ 2016_52								
		Comn	nent Cod	de				
S3 : Repai access wh		slope damag le.	ed by ve	ehicle traffic	and	prevent		
		Inspecto	or Comm	nent				



View of the tire tracks on the levee slope.

LM Start	5.23	Rating **	М	Issue No.		54		
LM End	5.23	Issue Type + En Location *		Location *		En Location *		LS
Category	ental	GPS Latitude/Longitude						
Calegory	Category					End		
Item	DWR UCIP Field Study			37.6752	44 °	37.675244°		
пеш				-121.2692	87°	-121.269287°		
DWR ID								

Comment Code

Inspector Comment

FS_ID:22290 DS_ID:24058 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: No permit identified for this crossing.

FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee at unknown depth below the crown. Siphon breaker in 10-inch steel

riser on LS shoulder. FS Date: 9/10/2013

Photo 1 of 2: UCIP_FA_2016_22290_38020.jpg



Siphon breaker in 10-inch steel riser on LS shoulder.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	5.23	Rating **	М	Issue No.		54 (cont)	
LM End	5.23	Issue Type + En		Location *		LS	
Category	Suppleme	ental		GPS Lat	itud	e/Longitude	
Calegory	Category					End	
Item	DWR UCIP Field Study			37.67524	4 °	37.675244	۰
пеш				-121.26928	7°	-121.269287	0
DWR ID							

Inspector Comment

Comment Code

FS_ID:22290 DS_ID:24058 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: No permit identified for this crossing.
FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee at unknown depth below the crown. Siphon breaker in 10-inch steel

riser on LS shoulder. FS Date: 9/10/2013



Cuts in pavement may indicate alignment of pipe at LS toe.

LM Start	5.24	Rating **	N	Issue No.		29	
LM End	5.24	Issue Type +	Ma	Location *		WS	
Category Earthen Levee			GPS Latitude/Longitude				
Category	Category					End	
Item	Trim / Thin Trees			37.6750	99°	37.675099°	
пеш	item				64°	-121.269264°	
DWR ID DWR_RD2085_01_f _ 2015_29							
Comment Code							
T5 : Tree stumps.							

Inspector Comment





View of the tree stump.

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles
Unit No. 02 San Joaquin River		0.70

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			Α	
Date of Inspection	3/17/2016 - 3/17/2016		10/19/2016 - 10/19/2016	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Ralph Timan RD2085		Ralph Timan RD2085	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.70	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	0.02	Rating **	Α	Issue No.		1	
LM End	0.69	Issue Type +	Ма	Location *		WS	
Category	Earthen Levee			GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	37.7050)41 °	37.714004°			
item				-121.274570°		-121.269690 °	
DWR ID DWR_RD2085_02_f _ 2016_1							
	Comment Code						
V1 : Control annual grass and weeds on the levee slopes and easements.							
	Inspector Comment						
LMA has good vegetation control this season.							

Photo 1 of 1 : FA_2016_RD2085_114_1_20161024_00001.jpg

View of the well maintained vegetation on the levee slope.

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles
Unit No. 03 San Joaquin River		0.29

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/17/2016 - 3/17/2016		10/19/2016 - 10/19/2016	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Ralph Timan RD2085		Ralph Timan RD2085	

Summer & Winter Inspections

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- a) completion of the inspection
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The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	0.01	Rating **	Α	Issue No.		4	
LM End	0.01	Issue Type +	Ma	Location *	WS		
Category	Earthen Levee				atitud	le/Longitude	
Calegory	gory			Start		End	
Item	Vegetation			37.680574		37.680574°	
iteiii	em				85 °	-121.264585 °	
DWR ID	DWR_RD2	085_03_f _ 201	6_4				
Comment Code							
V1 : Control annual grass and weeds on the levee slopes and easements.							

Inspector Comment

LMA did a great job controlling the vegetation this season.

Photo 1 of 1: FA_2016_RD2085_115_4_20161024_00002.jpg

View of the well maintained vegetation on the levee slope.

LM Start	0.21	Rating **	U	Issue No.		1		
LM End	0.23	Issue Type +	Ма	Location *		WS		
Category	Earthen Levee							le/Longitude
Calegory			Start		End			
Item	Erosion / Bank Caving			37.6827	98°	37.683052°		
item			-121.262059 °		-121.261851 °			
DWR ID DWR_RD2085_03_s _ 2014_1								

Comment Code
E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Erosion of the waterside levee slope has been observed. The erosion is about 3 feet tall vertical from the slope to the base of projected levee toe.

LM Start	0.21	Rating **	U	Issue No.	1 (cont)
LM End	0.23	Issue Type +	Ma	Location *	WS

Photo 1 of 2: FA_2016_RD2085_115_1_20161024_00003.jpg



View of the erosion at the waterside levee toe. Fall 2016.

Photo 2 of 2: FA_2016_RD2085_115_1_20160914_00001.jpg



View of the erosion at the waterside levee toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	0.22	Rating **	С	Issue No.		6		
LM End	0.22	Issue Type +	Ma	Location *		WS		
Category	Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End		
Item	Animal Control			37.682844°		37.682844		
пеш				-121.262002 °		-121.262002		
DWR ID	DWR ID DWR_RD2085_03_f _ 2015_6							
Comment Code								
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.								
Inspector Comment								

No Photos

LM Start	0.25	Rating **	М	Issue No.		7	
LM End	0.25	Issue Type +	Ma	Location *	WS		
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Slope Stability			37.683274°		37.683274°	
пеш				-121.2618	39°	-121.261839°	
DWR ID	DWR ID DWR_RD2085_03_f _ 2016_7						
Comment Code							

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment



Photo 1 of 1: FA_2016_RD2085_115_7_20161024_00004.jpg

View of the tire tracks on the levee slope.